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### Patent 1 of 1 (Set #1)

**Patent Number(s):** EP296136-A1; EP296136-A;  
SE8702511-A; **JP1035268-A**; SE458968-B; US5028545-A;  
EP296136-B; DE3870324-G; JP2638085-B2

**Title:** Bio-specific multi-analyte assay - using microparticles with fast decaying fluorescence for identification and long decay for concn. determin.

**Inventor(s):** SOINIE

**Patent Assignee Name(s) and Code(s):** WALLAC OY  
(WALLIN)

**Derwent Primary Accession Number:** 1988-362595 [80]

**Patents Cited by**

**Inventor:** 0

**Citing**

**Patents Cited by**

**Patents:** 70

**Examiner:** 19

**Articles Cited by**

**Inventor:** 0

**Articles Cited by**

**Examiner:** 8

### Abstract:

Biospecific multi analyte assay method comprises (a) preparing categories of microspheres representing different analytes to be assayed, the categories comprising different amts. of a fluorescent substance having a short decay time, (b) coating each category of microspheres with a biospecific reactant, (c) pooling the different categories of microspheres together in a suspension, (d) adding a sample contg. analytes to be assayed to the suspension, (e) adding a mixt. of biospecific reactants, labelled with a fluorescent cpd. having a long decay time to the suspension to initiate biospecific reactions between the analytes and the labelled reactants and microsphere-associated reactants, (f) diluting the suspension to reduce the concn. of labelled reactants not bound to the microspheres, (g) exciting both the fluorescent substance having a short decay time and the fluorescent cpd. having a long decay time, associated with the microspheres, to generate fluorescence emissions, (h) converting the fluorescence emissions to electrical signals, (i) identifying the category of each microsphere on the basis of the strength of the electrical signal resulting from the short decay time fluorescent substance and (j) measuring the concn. of the analyte on each microsphere on the basis of the strength of the electrical signal resulting from the long decay time fluorescent cpd.

on the same sample. The fast decaying fluorescent substance can be used for identification of the categories of the micro particles without any significant interference to the determin. of the analyte concn.

### Drawing:

**International Patent Classification:** C12Q-001/00; G01N-021/76; G01N-033/54; G01N-033/533; G01N-033/543

**Derwent Class:** B04 (Natural products and polymers, testing, compounds of unknown structure); I04

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EP296136-B → ORIGINAL DOCUMENT

US5028545-A → ORIGINAL DOCUMENT

EP296136-A1 → ORIGINAL DOCUMENT

EP296136-A → ORIGINAL DOCUMENT

(Chemical/physical processes and apparatus including catalysis); S03 (Scientific Instrumentation, photometry, calorimetry)

**Derwent Manual Code(s):** B05-A03B; B11-C07B3; B12-K04; J04-B01A; S03-E14H4

**Patent Details:**

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
EP296136-A1					
EP296136-A	21 Dec 1988		198851	Pages: 8	
SE8702511-A	17 Dec 1988		198906		
<b>JP1035268-A</b>	06 Feb 1989		198911		
SE458968-B	22 May 1989		198923		
US5028545-A	02 Jul 1991		199129		
EP296136-B	22 Apr 1992		199217	Pages: 9	
DE3870324-G	27 May 1992	G01N-033/543	199223		
JP2638085-B2	06 Aug 1997	G01N-033/543	199736	Pages: 6	

**Application Details and Date:**

EP296136-A	EP850205	07 Jun 1988
<b>JP1035268-A</b>	JP145944	15 Jun 1988
US5028545-A	US204258	09 Jun 1988
EP296136-B	EP850205	07 Jun 1988
DE3870324-G	DE3870324	07 Jun 1988
JP2638085-B2	JP145944	15 Jun 1988

**Further Application Details:**

DE3870324-G	Based on	Patent	EP296136
DE3870324-G	EP application	Application	EP850205
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**Priority Application Information and Date:**

SE002511	16 Jun 1987
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**Designated States:**

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(Regional): DE; GB; FR  
EP296136-B

(Regional): DE; FR; GB

**Field of Search:** x

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